

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1.-55. (Canceled).

56. (Currently amended) A needle for repeatedly penetrating a membrane, having a pointed end provided with a penetrating tip and with an opening for letting a liquid in and/or out in a main direction which is substantially parallel to the longitudinal extension of the needle, wherein the penetrating tip is designed with a point to initially prick a membrane when the membrane is penetrated and that the outer edges present on the pointed end in the area from the point to a position beyond the opening are rounded so that after the initial penetration the pointed end will push the membrane material away rather than cutting the membrane material; and wherein the point is arranged to lie substantially on a longitudinal centre line of the needle when viewed along the longitudinal centre line of the needle.

57. (Previously Presented) A needle according to claim 56, wherein the inner edge of the opening is rounded.

58. (Previously Presented) A needle according to claim 56, wherein the penetrating tip is designed with a cross section having a symmetry causing at least three substantially equally sized forces (F) in different directions which are radial to the longitudinal centre line of the needle and which forces counteract each other so that the needle will tend not to deviate from the initial penetration direction when the needle penetrates a membrane.

59. (Previously Presented) A needle according to claim 58, wherein the cross section is substantially triangular with rounded edges.

60. (Previously Presented) A needle according to claim 58, wherein the cross section is substantially circular.

61. (Cancelled)

62. (Previously Presented) A needle according to claim 56, wherein the pointed end has a shape substantially corresponding to a part of an imaginary cone, the tip of which coincides with the point.

63. (Previously Presented) A needle according to claim 56, wherein the opening is arranged on one and the same half of a cross section of the needle.

64. (Previously Presented) A needle according to claims 56, wherein the pointed end is provided with a basic shape in accordance with a lancet bevel cut.

65. (Previously Presented) A needle according to claims 56, wherein the pointed end is provided with a basic shape in accordance with a back bevel cut.

66. (Previously Presented) A needle according to claim 65, wherein the back bevel cut has a tip angle ( $\alpha$ ) in the interval  $20^\circ$  to  $50^\circ$ .

67. (Previously Presented) A needle according to claim 65, wherein the back bevel cut has a tip angle ( $\alpha$ ) in the interval  $50^\circ$  to  $100^\circ$ .

68. (Previously Presented) A needle according to claim 65, wherein the back bevel cut has a tip angle ( $\alpha$ ) in the interval  $30^\circ$  to  $80^\circ$ .

69. (Previously Presented) A needle according to claim 68, wherein the tip angle ( $\alpha$ ) is approximately  $75^\circ$ .

70. (Previously Presented) A needle according to claim 65, wherein the back bevel cut has a second grind angle ( $\beta$ ) in the interval  $50^\circ$  to  $140^\circ$ .

71. (Previously Presented) A needle according to claim 70, wherein the second grind angle ( $\beta$ ) is approximately  $100^\circ$ .

72. (Previously Presented) A needle according to claim 56, wherein the needle is provided with a tip angle ( $\alpha$ ) in the interval  $20^\circ$  to  $100^\circ$ .

73. (Previously Presented) A needle according to claim 72, wherein the tip angle ( $\alpha$ ) is in the interval  $30^\circ$  to  $80^\circ$ .

74. (Previously Presented) A needle according to claim 56, wherein the needle is provided with a rear angle ( $\beta$ ) in the interval  $50^\circ$  to  $140^\circ$ .

75. (Previously Presented) A needle according to claim 74, wherein the rear angle ( $\beta$ ) is approximately  $100^\circ$ .

76. (Currently Amended) A needle for repeatedly penetrating a membrane, said needle having a pointed end provided with a penetrating tip and with an opening for letting a liquid in and/or out in a main direction which is substantially parallel to the longitudinal extension of the needle, wherein the point of the penetrating tip is arranged to lie substantially on the longitudinal centre line of the needle when viewed along the longitudinal centre line of the needle, and the penetrating tip is designed with a cross section having a symmetry causing at least three substantially equally sized forces (F) in different directions which are radial to the longitudinal

centre line of the needle and which forces counteract each other so that the needle will tend not to deviate from the initial penetration direction when the needle penetrates a membrane.

77. (Previously Presented) A needle according to claim 76, wherein the cross section is substantially triangular with rounded corners.

78. (Previously Presented) A needle according to claim 76, wherein the cross section is substantially circular.

79. (Previously Presented) A needle according to claim 58, wherein the point of the penetrating tip is arranged to lie substantially on the longitudinal centre line of the needle.

80. (Previously Presented) A needle according to claim 58, wherein the pointed end has a shape substantially corresponding to a part of an imaginary cone, the tip of which coincides with the point.

81. (Previously Presented) A needle according to claim 61, wherein the pointed end has a shape substantially corresponding to a part of an imaginary cone, the tip of which coincides with the point.

82. (Previously Presented) A needle according to claim 58, wherein the opening is arranged on one and the same half of a cross section of the needle.

83. (Previously Presented) A needle according to claim 58, wherein the pointed end is provided with a basic shape in accordance with a lancet bevel cut.

84. (Previously Presented) A needle according to claim 58, wherein the pointed end is provided with a basic shape in accordance with a back bevel cut.

85. (Previously Presented) A needle according to claim 69, wherein the back bevel cut has a second grind angle ( $\beta$ ) in the interval  $50^\circ$  to  $140^\circ$ .

86. (Previously Presented) A needle according to claim 58, wherein the needle is provided with a tip angle ( $\alpha$ ) in the interval  $20^\circ$  to  $100^\circ$ .

87. (Previously Presented) A needle according to claim 58, wherein the needle is provided with a rear angle ( $\beta$ ) in the interval  $50^\circ$  to  $140^\circ$ .

88. (Withdrawn, Currently Amended) A method for manufacturing a needle for repeatedly penetrating a membrane, comprising: cutting a tubular blank obliquely for obtaining a pointed end provided with a penetrating tip and with a opening for letting a liquid in and/or out in a main direction which is substantially parallel to the longitudinal extension of the needle, characterized by providing the penetrating tip with a ~~substantially point-shaped edge~~ arranged to lie substantially on the longitudinal centre line of the needle when viewed along the longitudinal centre line of the needle, and rounding all outer edges present on the pointed end in the area between the point-shaped edge and a position beyond the opening.

89. (Withdrawn) A method according to claim 88, characterized by rounding the inner edge of the opening.

90. (Withdrawn) A method according to claim 88 or 89, characterized by shaping the penetrating tip with a cross section having a symmetry causing at least three substantially equally sized forces (F) in different directions which are radial to the longitudinal centre line of the needle and which forces counteract each other so that the needle will tend not to deviate from the initial penetration direction when the needle penetrates a membrane.

91. (Withdrawn) A method according to claim 88 or 89, characterized by arranging the point-shaped edge of the penetrating tip to lie substantially on the longitudinal centre line of the needle.

92. (Withdrawn) A method according to any of claims 88 or 89, characterized by shaping the pointed end as a part of an imaginary cone, the tip of which coincides with the substantially point-shaped edge.

93. (Withdrawn) A method according to any of claims 88 or 89, characterized by shaping the pointed end so that at least a major part of the opening will be located on one and the same half of the cross section of the needle.

94. (Withdrawn) A method according to any of claims 88 or 89, characterized by grinding the penetrating tip in accordance with a lancet bevel cut before rounding the outer edges of the pointed end.

95. (Withdrawn) A method according to any of claims 88 or 89, characterized by grinding the penetrating tip in accordance with a back bevel cut before rounding the outer edges of the pointed end.

96. (Withdrawn) A method according to any of claims 88 or 89, characterized by shaping the penetrating tip by a non-cutting process.

97. (Withdrawn) A method according to any of claims 88 or 89, characterized by rounding the outer edges by blasting and/or electrochemical polishing.

98. (Withdrawn) A method according to claim 89, characterized by rounding the inner edge of the opening by blasting and/or electrochemical polishing.

99. (Withdrawn) A method according to claim 90, characterized by arranging the point-shaped edge of the penetrating tip to lie substantially on the longitudinal centre line of the needle.

100. (Withdrawn) A method according to claim 90, characterized by shaping the pointed end as a part of an imaginary cone, the tip of which coincides with the substantially point-shaped edge.

101. (Withdrawn) A method according to claim 90, characterized by shaping the pointed end so that at least a major part of the opening will be located on one and the same half of the cross section of the needle.

102. (Withdrawn) A method according to claim 90, characterized by grinding the penetrating tip in accordance with a lancet bevel cut before rounding the outer edges of the pointed end.

103. (Withdrawn) A method according to claim 90, characterized by grinding the penetrating tip in accordance with a back bevel cut before rounding the outer edges of the pointed end.

104. (Withdrawn) A method according to claim 90, characterized by shaping the penetrating tip by a non-cutting process.

105. (Withdrawn) A method according to claim 104, wherein said non-cutting process comprises forging or hammering.

106. (Withdrawn) A method according to claim 90, characterized by rounding the outer edges by blasting and/or electrochemical polishing.